

MUBENDE MUNICIPAL SCHOOLS

ASSESSMENT SET IV, 2024

PRIMARY SEVEN

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.	Random No.						Personal No.		

Candidate's Name:

Candidate's Signature:

District ID No:

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Read the following instructions carefully:

1. Do not write your school or district name anywhere on this paper.
2. This paper has two sections: A and B. Section A has 20 questions and Section B has 12 questions. The paper has 8 printed pages altogether.
3. Answer all questions. All the working for both sections A and B must be shown in the spaces provided.
4. All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than graphs and diagrams will not be marked.
5. No calculators are allowed in the examination room.
6. Unnecessary changes in your work and handwriting that cannot easily be read may lead to loss of marks.
7. Do not fill anything in the table indicated: "For Examiners' use only" and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	Marks	EXR'S NO.
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

SECTION A : 40 MARKS.

Answer all questions in this section.

Questions 1 to 20 carry two marks each.

1. Work out:

$$\begin{array}{r} 4 \ 3 \\ \times \ 3 \\ \hline \end{array}$$

2. Simplify: $2y - 2m + y - m$

3. Find the sum of all prime numbers between 80 and 90.

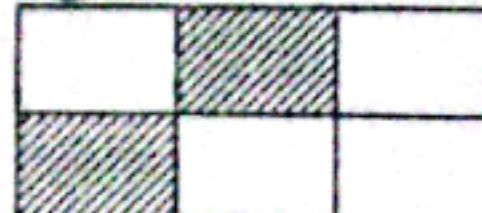
4. Arrange 1, 0, -2, 3, -4, -1, 2 in ascending order using a number line.

5. How many 500 grammes packets are contained in 10kg of salt?

6. Change 26_{ten} to base five.

7. A team can either win, lose or draw a game, what chance will a team draw a game?

8. What decimal fraction is unshaded on the figure below.



9. Express 8.08×10^{-2} as a single numeral.

10. A profit of Shs. 4000 was made on a shirt sold at Shs. 44000. Calculate its percentage profit.

11. Given that Set K = {a, e, i, o, u}
N = {n, y, m, p, h}
Find KnN.

12. Using a protractor and a pencil only, draw an angle of 140° in the space below.

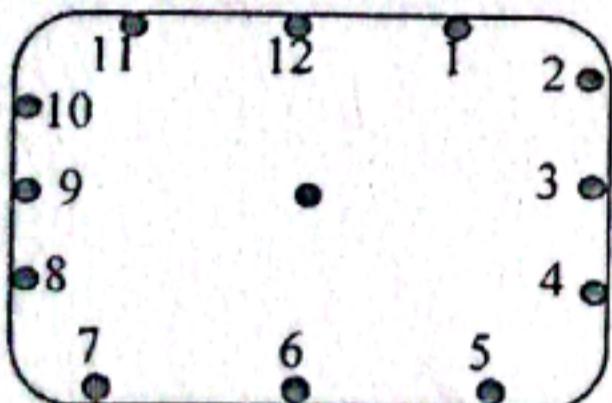
13. The GCF of two numbers is 6 and their LCM is 72. If one of the numbers is 24, work out the second number.

14. Solve for \square : $\frac{3\square}{7} = 21$

15. Given that  can hold $\frac{1}{2}$ litre, draw similar cups that can hold 3 litres.

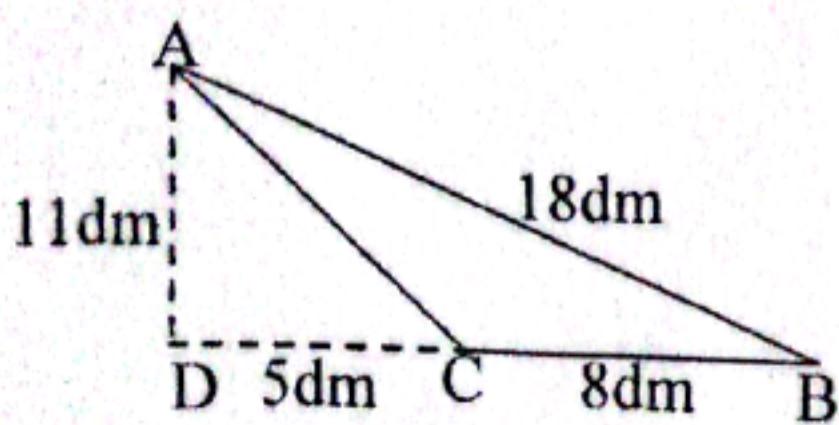
16. Divide: $7 \overline{)7021}$

17. Show 15 minutes to 6 0' clock in the morning on the clock face below.

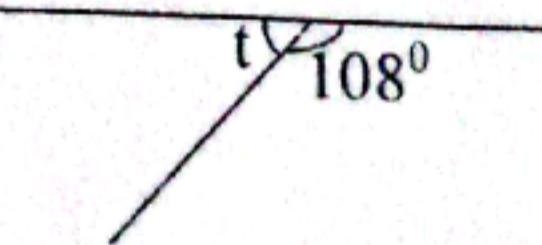


18. Increase Shs. 125,000 by 20%.

19. Calculate the area of triangle ABC below.



20. Find the size of angle t in degrees.

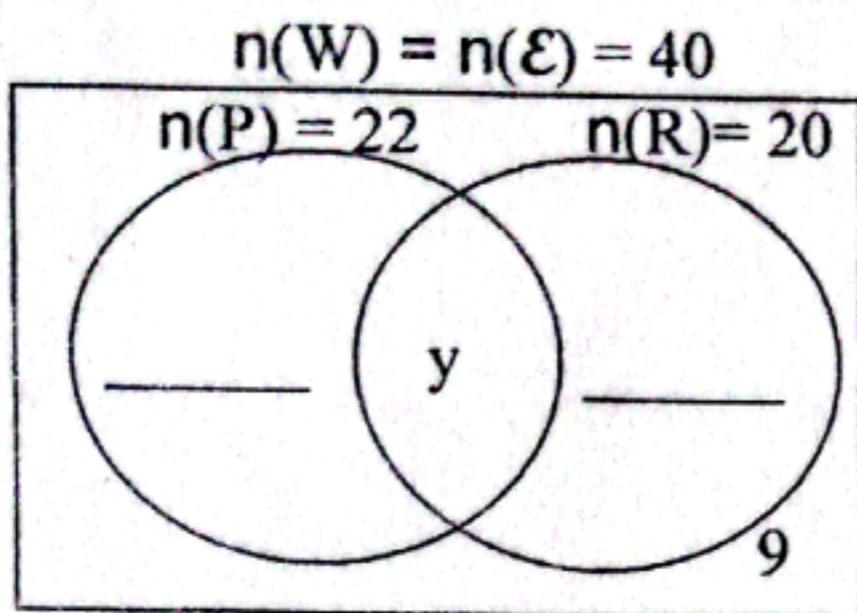


SECTION B : 60 MARKS

*Answer all questions in this section.
Marks for each question are indicated in the brackets.*

21. In a class of 40 candidates, all candidates drink water (W), 22 eat posho (P), 20 eat rice (R) and y candidates take all the three while 9 candidates drink water only.

(a) Represent the above information on the Venn diagram below. (2 marks)



(b) Find the value of y . (2 marks)

(c)

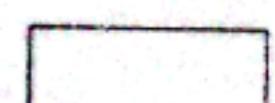
Work out the probability of picking a candidate who doesn't eat rice. (1 mark)

22. Tom's cow gives 12000ml of milk per day.

(a) How many litres of milk does it give in a fortnight? (3 marks)

(b)

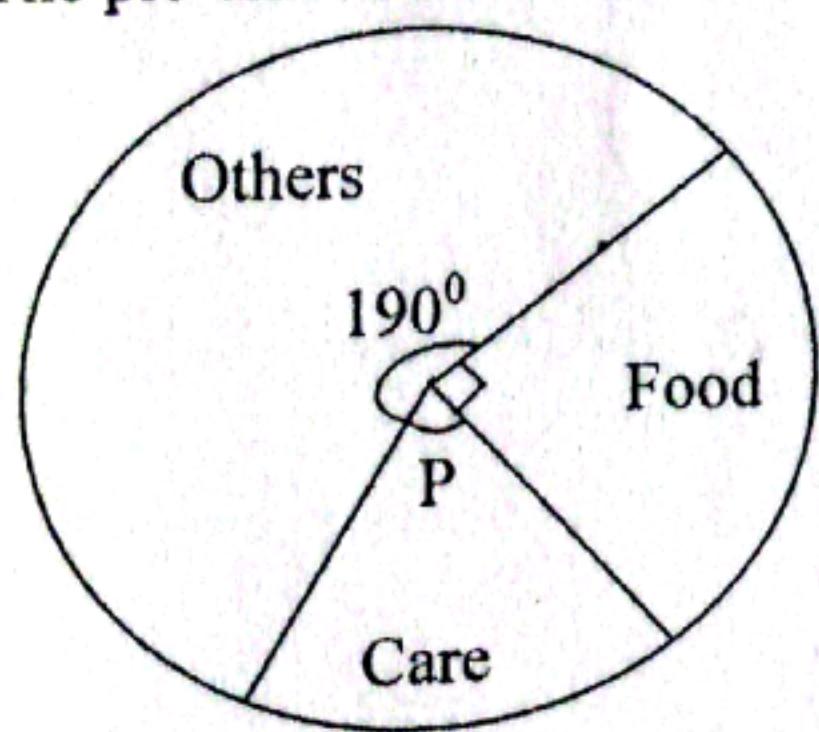
If a litre of milk costs Shs. 1500, how much does Tom earn per week? (2 marks)



23. Study and complete Annet's shopping bill table below. (5 marks)

S/NQ	ITEM	QUANTITY	UNIT COST	AMOUNT
(i)	Sugar	$\frac{1}{2}$ kg	Shs. 3000 per kg	Shs.
(ii)	Salt gms	Shs. 2000 @kg	Shs. 1000
(iii)	Tomatoes	12 tomatoes	Shs.per 4 tomatoes	Shs. 3000
(iv)	Cooking oil	1.5 litres	Shs. 6000 a litre	Shs.
(v)		TOTAL EXPENDITURE		Shs.

24. The pie-chart below shows how a parent spent his income during the holiday.
 (a) Solve for the value of p in degrees. (2 marks)



- (b) If a parent spent Shs. 180,000 on food, how much was his total income altogether? (2 marks)

25. (a) Simplify $\left(\frac{3}{7} \times 9\right) + \left(\frac{3}{7} \times 5\right)$ using distributive property. (2 marks)

(b) Work out for x : $16 = 2 \times 2^x$ (2 marks)

26. (a) Draw a net of a tetrahedron in the space below. (2 marks)

(b) Calculate the supplementary angle of 78° . (2 marks)

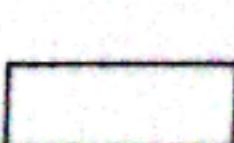
(c) A teacher was facing North West direction and turned anticlockwise through an angle of 225° . What is his new direction? (2 marks)

27. At a party, $\frac{1}{3}$ of the money was spent on food, $\frac{1}{4}$ of it on drinks and saved the rest for gifts.

(a) What fraction of money was saved for gifts? (2 marks)

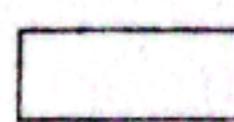
(b) If Shs. 120,000 was saved for gifts, calculate the amount of money that was spent altogether. (3 marks)

28. With the help of a ruler, a pencil and a pair of compasses only, construct a square ABCD of side AB = BC = 5cm. (5 marks)

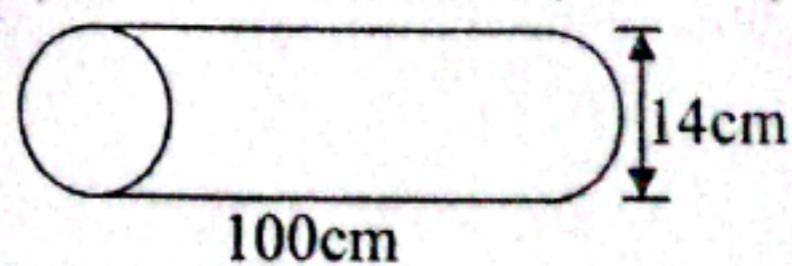
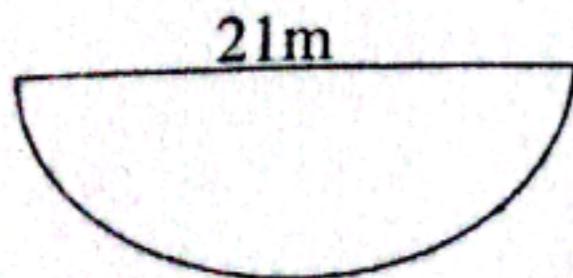


29. Abdul left town at 5:20pm travelling at a speed of 72km/hr and arrived home 120km away from town in the evening.

- (a) At what time did he arrive his home? (b) Express his speed in m/second.
(4 marks) (2 marks)



30. (a) Find the perimeter of the figure below. (2 marks) (b) Calculate the volume of the cylinder below. (2 marks)



31. (a) Find the sum of $(2p - 3)$ and $(7 - p)$. (b) If $p = 3$ and $m = 5$, simplify: 3mp
 (2 marks) (2 marks)

- (c) Bosco is 10 years older than his wife. If their total age is 90 years, how old is the wife? (2 marks)

32. The picto-graph below shows number of tomatoes Joan sold per day.

DAY	NUMBER OF TOMATOES SOLD					
Monday	●	●	●	●	●	
Tuesday	●	●	●	●	●	●
Wednesday	●	●	●	●	●	
Thursday	●	●	●	●		
Friday	●	●	●	●	●	

KEY:  stands for 20 tomatoes.

- (a) When did Joan sell the same number of tomatoes? (1 mark) (b) Work out the median of all tomatoes sold by Joan. (2 marks)
- (c) If Joan sold all tomatoes in heaps of 4 tomatoes each at Shs. 1000 per heap, how much did she earn? (2 marks)

